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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/776,606	02/12/2004	Takeshi Kakuta	Q79732 3949	
32361	7590 09/28/2005		EXAMINER	
GREENBERG TRAURIG, LLP			CAO, ALLEN T	
MET LIFE BUILDING 200 PARK AVENUE		ART UNIT	PAPER NUMBER	
NEW YORK, NY 10166			2652	
			DATE MAILED: 09/28/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/776,606	KAKUTA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Allen T. Cao	2652	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONED	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 12 For 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under Expression 1.	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4)	wn from consideration. r election requirement.	d to by the Evaminer	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicationity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)	∧ □	(DTO 440)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2/12/04 and 8/12/0</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

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1. The subject matter of this application admits of illustration by a drawing to facilitate understanding of the invention. Applicant is required to furnish a drawing under 37 CFR 1.81(c). No new matter may be introduced in the required drawing. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

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2. The disclosure is objected to because of the following informalities: The disclosure does not have a section of "Brief Description of the Drawings".

Appropriate correction is required.

- 3. Claims 5-8 are objected to because of the following informalities: The terms "a" and "an" in front of the terms "peak" and "E1'/E2'" should be changed to –the--, respectively. Appropriate correction is required.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata (US 2002/0127367 A1) in view of JP02002088325A and Bennett et al (US. 6,815,035 B2).

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Shibata discloses an optical information recording medium having a substrate 12, a recording layer 16, an adhesive layer 20 and a transparent sheet 22 provided in this order as set forth in claim 1.

However, Shibata does not disclose that the adhesive layer has a peak of loss modulus at a temperature of 0°C or less and exhibits an E1'/E2' ratio of 2.0 or less; wherein E1' and E2' represent storage moduli of the adhesive layer at 25°C and 80°C, respectively as recited in claim 1.

JP ('325) discloses a semiconductor device having an adhesive layer which has a peak of loss modulus at a temperature of 0°C or less (-80°C to 50°C includes the range of 0°C or less and which is satisfied the claimed range of 0°C or less).

Bennett et al discloses an optical disc (DVD) having an adhesive layer 18 which has exhibits an E1'/E2' ratio of 2.0 or less; wherein E1' and E2' represent storage moduli of the adhesive layer at 25°C and 80°C, respectively. See TABLE 3A shows that the storage modulus at 23°C (substantially 250C) / the storage modulus at 80°C is equal to "2.0 or less".

It would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the adhesive of Shibata with an adhesive as set forth, supra as taught by JP ('325) and Bennett et al through an obvious routine lab experimentation and optimization an excellent durability bond and preventing corrosive might occurred.

Regarding claim 2, Shibata discloses that the recording layer contains an organic dye ([0026], lines 1-3).

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Regarding claim 3, Shibata discloses a reflective layer 14 between the substrate 12 and the recording layer 16.

Regarding claim 4, Shibata discloses an intermediate layer 18 between the recording layer 16 and the adhesive layer 20.

Regarding claim 5, JP ('325) discloses the adhesive including the peak of loss modulus at a temperature -50° C to -15° C (-80°C to 50° C includes the range of -50° C to -15° C and which is satisfied the claimed range of -50° C to -15° C).

Regarding claim 6, JP ('325) discloses the adhesive including the peak of loss modulus at a temperature -40° C to -25° C (-80°C to 50°C includes the range of -40° C to -25° C and which is satisfied the claimed range of -40° C to -25° C).

Regarding claim 7, TABLE 3A of Bennett et al discloses that the E1'/E2' ratio of 1.5 or less.

Regarding claim 8, TABLE 3A of Bennett et al discloses that the E1'/E2' ratio of 1.0 or less. (examples 36 and 37).

6. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata, JP ('325) and Bennett et al as applied to claim 1 above, and further in view of Ooki et al (US. 6,500,511 B1).

Shibata as modified by JP ('325) and Bennett et al do not disclose that the adhesive layer is made of an ultraviolet curable resin (claim 9) or an acrylic pressure-sensitive adhesive (claim 10).

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Ooki et al discloses an optical disc having an adhesive layer either made of an ultraviolet curable resin or an acrylic pressure-sensitive adhesive (column 7, lines 14-16).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to manufacture the adhesive of Shibata as modified by JP ('325) and Bennett et al with an ultraviolet curable resin or an acrylic pressure-sensitive adhesive as taught by Ooki et al to provide a smoother adhesive in order to smoothly filled pits and grooves to provide an uniformly flat surface between two adjacent layers, thus an outstanding flat optical disc is provided.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen T. Cao whose telephone number is (571) 272-7569. The examiner can normally be reached on Mon - Thurs (7:30 - 6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen Cao

Mentins

Primary Examiner

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September 2, 2005